VIDYARTHI VIGYAN MANTHAN (VVM) 2024-25
Evaluation Scheme for National Level Camp (NLC)

The final component of the evaluation of Vidyarthi Vigyan Manthan (VVM) after the State Level Camp (SLC) is the National Level Camp (NLC). We are happy to inform you that we will conduct a National Level Camp on **May 24-25, 2025,** at the **Indian Institute of Technology Kanpur (IITK), Kanpur, Uttar Pradesh**. All the selected students for NLC have successfully cleared the first and second rounds and demonstrated their excellence in both examinations. The Team VVM congratulates all the successful candidates for their success.

The National Level Camp will be conducted physically in TWO days. The NLC will start at 09:00 AM on May 24, 2025, and the Himalayans and Zonal winners will be declared on May 25, 2025, by 06:00 PM. The program will start with registration, followed by the inauguration and will end with a valedictory and winner declaration function. There is only one National Level Camp for all the selected students.

Students will be required to reach IIT Kanpur, Uttar Pradesh latest, by the Morning (before 08:00 AM) of Saturday, May 24, 2025. They can plan to return in the evening (after 07:00 pm) of Sunday, May 25, 2025. For the remaining guidelines and the conduct of the camp, check the attachments. The National Level Camp will provide an opportunity to students to showcase their talent under the following Groups of activities.

All the questions in science and math will be based on the VVM Curriculum (Link- https://vvm.org.in/ncert_syllabus) for the respective group. The students will be divided into two groups viz. Junior Group (Class VI, VII, and VIII) and Senior Group (Class IX, X, and XI). There will be separate papers for Junior and Senior Groups.

The NLC will have the components as given in the table:

S. N.	Components/Sections	Duration	Weightage
1	**A.** Application-Oriented Scholastic Aptitude Test (AOSAT): A thought-provoking, situation-based problem of science and Mathematics based on VVM syllabus	30 minutes	10% (10 Marks)
	B. Indian Contribution and Advancement in Science and Technology (ICAST): Students will be asked MCQ type questions based on the contributions of the following Research Institutions of India- **Institutes for Junior Group:** **(1)** Indian Institute of Pulses Research, Kanpur, Uttar Pradesh **(2)** Physical Research Laboratory, Ahmedabad, Gujarat **Institutes for Senior Group:** **(1)** India Meteorological Department, MoES, New Delhi **(2)** Central Marine Fisheries Research Institute, Kochi, Kerala ❖ To know the Scope of Topics and Suggestive References, students need to check Annexure-I.	15 minutes	15% (15 Marks)

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S. N.	Components/Sections	Duration	Weightage
	C. Personal Interaction: The topic for the Junior Group is "Science behind Indian String Musical Instruments" and for the Senior Group is "Nanotechnology in the Indian Context". ❖ To know the Scope of topics and suggestive references, students need to check Annexure-I.	5 – 10 min	10 % (10 Marks)
	D. Vocal for Local: Students need to choose any ONE of the following themes and prepare a slide presentation in PDF format with FOUR slides only and upload it on the given link before 20th April, 2025. **Theme for Junior Group:** 1) Biological Hotspots (in your Locality / State / Union Territory) **Theme for Senior Group:** 1) Any One G.I. Tagged Product (in your Locality / State / Union Territory) ❖ To know the Scope of topics and suggestive references, students need to check Annexure-I.	3 – 5 min	10 % (10 Marks)
2	**Experimental Skill Test (EST)**: in Physics, Chemistry, Biology and Math, based on academic knowledge of VVM Syllabus of the respective class.	50 minutes for each subject	40% (40 Marks)
3	**Creativity** **Creative Assembling/Problem Solving -** Junior Group Students are required to do hands-on, non-literal activity that encourages original thinking, problem-solving, and innovation. **Creative Problem-Solving with Six Thinking Hats** – Senior Group Students are required to use divergent thinking, problem-solving, and the application of Edward de Bono's Six Thinking Hats framework.	50 minutes	5 % (5 Marks)
4	**Out-of-Box Activity:** Students will have to complete the different activities in the stipulated time. **Junior Group -** Some puzzles will be given, and students will be expected to complete them as per the instructions. **Senior Group -** Some puzzles will be given, and students will be expected to complete them as per the instructions.	50 minutes	10 % (10 Marks)

1. Application-Oriented Scholastic Aptitude Test (AOSAT) and Indian Contribution and Advancements in Science and Technology (ICAST) [45%]

It will be a combination of paper-pen and interaction-based examinations conducted in four parts. Details of the examination will be as follows

(i) **Questions on the subject (10%):** There will be two thought-provoking, situation-based problems from the application of Science and Mathematics. The problem will be based on the VVM curriculum (NCERT and Various Boards curriculum) of the respective classes.

(ii) **Indian Contribution and Advancements in Science and Technology (ICAST) (15%):** This year, the topic for the junior group will be "Indian Institute of Pulses Research, Kanpur, Uttar Pradesh " & "Physical Research Laboratory, Ahmedabad, Gujarat" and for the senior group the topic will be "India Meteorological Department, MoES, New Delhi" & " Central Marine Fisheries Research Institute, Kochi, Kerala".

(iii) **Personal Interaction (10%):** A 5-10 min personal interaction will be conducted under ICAST to understand the personality of students. The topic for the Junior Group is: "Science behind Indian String Musical Instruments", and for the Senior Group, it is: "Nanotechnology in the Indian Context".

(iv) **Vocal for Local (10%):** A 3-5 min presentation-based interaction will be conducted under ICAST to understand the presentation skills and the traditional knowledge of students. The topic for the Junior Group is "Biological Hotspots (in your Locality / State / Union Territory)" and for the Senior Group, it is "Any One G.I. Tagged Product (in your Locality / State / Union Territory)".

Note: Please refer to Annexure-I for more details of the Topics and Broad Scope for ICAST, Personal Interaction and Vocal for Local Themes.

2. Experimental Skill Test (EST) in Physics, Chemistry, Biology and Math [40%]

Hands-on Physics, Chemistry, Biology and Math experiments will be given as individual activities. Students need to perform the activity and do all necessary calculations/graph plotting within 50 minutes.

For 11th class students, the weightage of Math or Biology will be doubled, and they will have to attempt only one of them, depending on their choice.

3. Creativity [5%]

Junior Group students will be assessed through an activity titled **"Creative Assembling/Problem Solving".** This activity encourages junior category students to engage in challenges that promote creativity and critical thinking. Students will tackle an open-ended creative challenge, focusing on originality and imaginative expression, with an emphasis on presenting a well-structured idea that integrates given elements innovatively. The activity will focus on sequential thinking and storytelling, where students will create a coherent narrative using visual elements, ensuring logical progression, relevance of details, and depth of expression. Finally, the students will concentrate on persuasive communication and design thinking, presenting their ideas in a structured, compelling manner, and integrating strong visual components with a clear, effective message. The evaluation

will assess creativity, organization, logical coherence, and the ability to present ideas in an engaging and effective way.

Senior Group students will be assessed through an activity titled " **Creative Problem-Solving with Six Thinking Hats** ". This activity is designed to assess creative and critical problem-solving skills. Students will be presented with a pre-determined statement. The task involves utilizing their understanding of six thinking hats. The students will need to think about the problem/vision/policy statement provided to them from the perspective of each hat and express by writing/drawing their ideas on the chart paper provided to them.

4. Out-of-Box Activities [10%]

Students will be given on-the-spot activities/puzzles/mathematical shapes to be solved during this activity. **Junior Group** students will be given some form of puzzles, and students will be expected to solve them on in the stipulated time as per the instructions. **Senior Group** students will be given some form of puzzles, and students will be expected to solve them on in the stipulated time as per the instructions.

As mentioned, there are four sections of the evaluation. The ICAST test will be conducted just after the inauguration. There will be two evaluation sessions (4 hours each) in addition to the ICAST test. In one of the 4-hour sessions, the Experimental Skill Test (EST) will be conducted, while all other components will be conducted in another 4-hour session. A detailed evaluation schedule will be given during registration on May 23/24, 2025.

Maximum marks of NLC will be 100. Out of these, 45 marks will be given to **AOSAT, ICAST, Personal Interaction & Vocal for Local;** 40 to **EST**, 5 to **Creativity** and 10 to **Out-of-Box Activity**.

The result of the National Level Examination, i.e., Himalayans, and the list of Zonal Winners will be announced on the 2nd day of the camp, i.e., around 05:00pm on May 25, 2025.

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Academic Head

Dr. Brajesh Pandey
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Dr. Prashant Kodgire
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